



**Newton Backup Utility for Windows
User's Guide**



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1

Getting Started



This chapter describes how to connect your Newton personal digital assistant (PDA) to your computer, install the Newton Backup Utility, and use the utility to create your first backup.

About the Newton Backup Utility

With the Newton Backup Utility, you can connect your Apple MessagePad or other Newton PDA to your Windows-based computer and do the following:

- Back up Newton information and store it on your computer.
- Install packages (applications, system updates, and so on) on your Newton PDA.
- Restore backed-up information to your Newton PDA.

The Newton Backup Utility works the Newton 2.0 Operating System. You can also use the utility to transfer information from a Newton PDA that uses an earlier version of the operating system. For more information, see the upgrade instructions that came with this utility.

Note: If you have a Newton PDA that doesn't use Newton 2.0 and you don't plan to upgrade, Apple recommends you use the Newton Connection 2.0 Kit instead of the Newton Backup Utility.

Installation requirements

To use the Newton Backup Utility with your computer, you need the following:

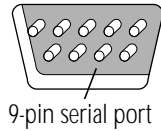
- An IBM PC or compatible computer with an Intel 80386 or later version microprocessor
- A VGA display or better
- Windows 3.1, or Windows NT, or Windows 95
- 4 Megabytes (MB) for random-access memory (RAM) (total amount of system memory)
- a hard disk drive with 3 MB of available disk space
- a serial port
- a serial cable (9-pin or 25-pin corresponding to the available serial port). This cable is not included with the Newton Backup Utility package. See “Connecting A Newton PDA to Your Computer” for more information about obtaining a cable.

IMPORTANT If you’re upgrading your Newton PDA to Operating System 2.0 make sure you read the instructions that came with your upgrade kit before you use the Newton Backup Utility.

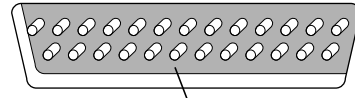
Connecting a Newton PDA to your computer

Before you can transfer information between the PC and your Newton PDA, you need to connect the two machines with a serial cable. The Newton Backup Utility communicates with the Newton PDA through a serial port on your PC.

PC serial ports come in two sizes—9-pin or 25-pin. On some computers a serial port may be labeled COM1, COM2, COM3, COM4, or SERIAL.



9-pin serial port



If your computer has a 25-pin serial port, you can use an adapter to connect.

If you are upgrading your Newton PDA to the Newton 2.0 operating system, you can request a free cable be sent to you with the upgrade package. If you have purchased other products that supplied a cable for connecting your Newton PDA to your computer, you can use that cable.

You can also purchase a serial cable for your computer from your Apple-authorized dealer, Apple Newton Serial Cable For Windows part # XXXX.

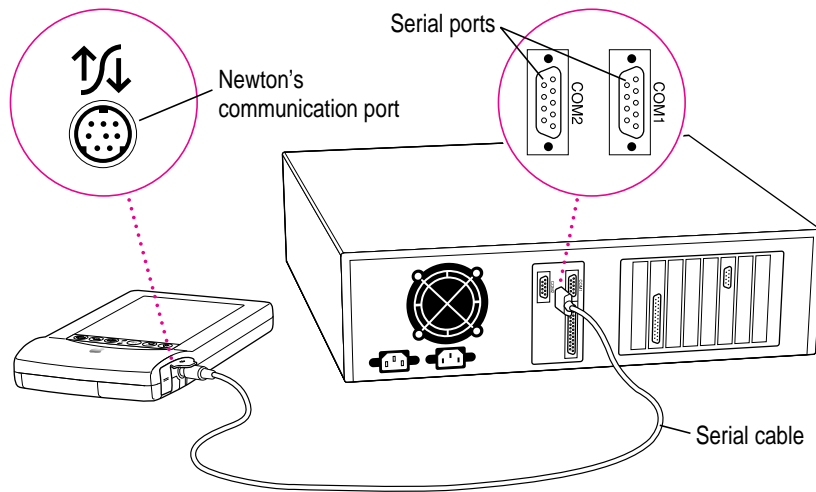
Attaching the cable

To connect your Newton PDA and PC by cable:

- 1 Turn off your computer.**
- 2 Choose an available serial port on your PC.**
- 3 Connect the end of the cable with 9 holes to the appropriate port.**

If you have a 25-pin serial port, use an adapter. Push the smaller end of the DB9-DB25 adapter onto the 9-hole end of the cable. Then plug the larger end of the adapter into a matching 25-pin serial port.

- 4 Plug the other end of the cable into the Newton PDA's communication port.**



That's it! You can go on to “Installing the Newton Backup Utility,” next.

Installing the Newton Backup Utility

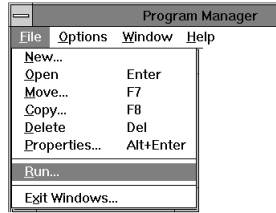
Before your computer can communicate with your Newton PDA, you need to install the Newton Backup Utility on your computer. You'll need the disks that came with this manual.

The Newton Backup Utility installation program, `INSTALL.EXE`, installs the Newton Backup Utility files. For more information about the files installed on your computer, see “Newton Backup Utility Files” in Appendix A.

Before you begin to install the Newton Backup Utility software, make sure your system meets the necessary minimum requirements. For a list of system requirements, see “Installation Requirements” earlier in this chapter.

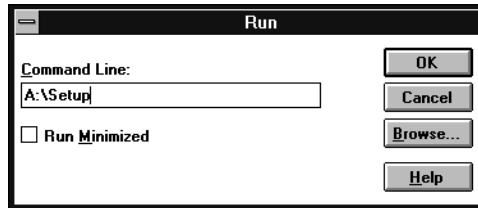
To install the Newton Backup Utility software:

- 1 Place the *Install* disk in the appropriate floppy drive.
- 2 In Program Manager, choose Run from the File menu.



- 3 Type A:\SETUP and choose OK.

If you are using the B drive, type B:\SETUP instead.



- 4 Follow the on-screen instructions.

Newton Backup Utility is installed in the NBU directory. At the end of the installation process, the installation program will restart Windows. After restarting Windows, the utility icon appears in the Newton Backup Utility group or the group you specified during installation.

In the File Manager, you'll find a directory named NBU on your hard disk.

Preparing your computer

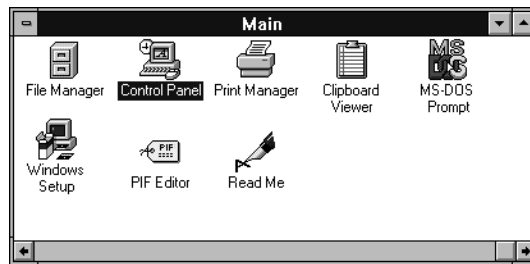
To prepare your computer for communication with a Newton PDA, follow these steps.

Turning on your computer's virtual memory

If you must turn on your computer's virtual memory for NBU to work. If your computer's virtual memory is on, you can skip ahead to “Opening the Newton Backup Utility,” next.

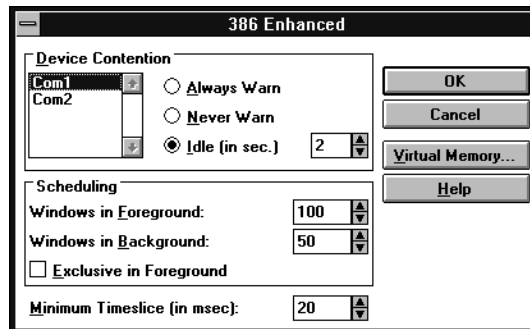
To turn on your computer's virtual memory:

- 1 In the Main window on your computer, double-click the Control Panel icon.



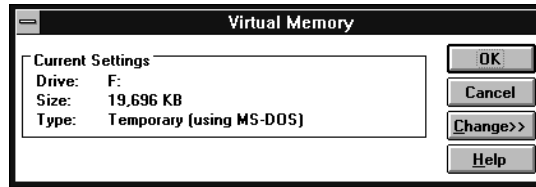
- 2 In the Control Panel window, double-click the 386 Enhanced icon.

The 386 Enhanced window appears on your computer.



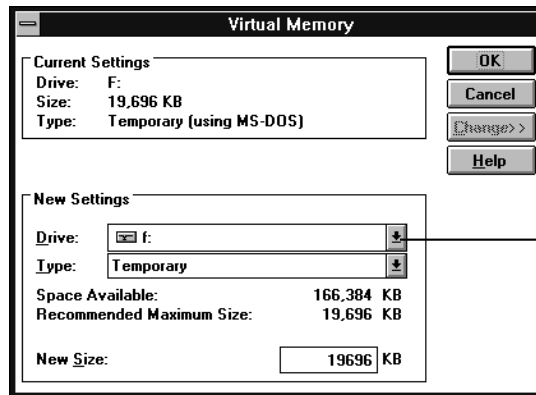
- 3 Click the Virtual Memory button.

Another window appears.



5 Click the Change button.

The window expands showing options that allow you to specify which disk drive should be used for virtual memory.



Click here to select a different disk to use for virtual memory.

The window shows the currently selected disk and the amount of available space for virtual memory.

6 Use the currently selected hard disk drive, or select a different drive from the Drive popdown list and click OK.

A message appears asking you to confirm that you want to change your settings.

7 Click Yes.

A message appears saying that you must restart Windows to put your virtual memory settings in effect.

8 Click Restart Windows.

Opening the Newton Backup Utility

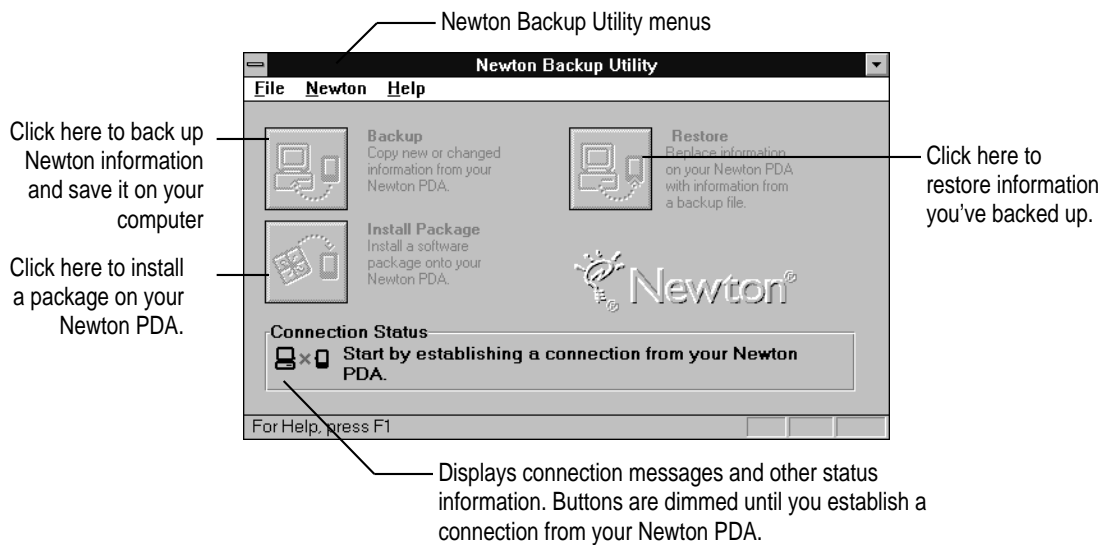
To open the utility:

- In the Program Manager or File Manager on your computer, double-click the Newton Backup Utility icon.

Double-click the icon
to start the program.



The Newton Backup Utility window appears on your computer.

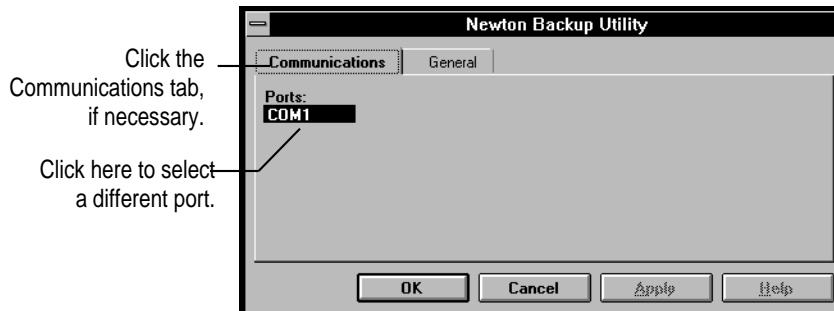


Selecting the type of connection on your computer

The first time you use the Newton Backup Utility, you need to specify how the Newton PDA is connected to your computer.

1 Choose Settings from the Newton menu.

The Settings window appears.



2 Click the port you want to use in the Ports list.

3 Choose OK to update your port configuration and close the window.

Note: You can also use the Settings window to set the location of backup files. For more information, see “Changing the Location of the Backups Folder” in Chapter 2.

Preparing your Newton PDA

Before you use the Newton Backup Utility, you need to tell your Newton PDA how it is connected to the computer.

Note: The instructions in this section apply to Newton PDAs that use the Newton 2.0 Operating System. If you have a Newton PDA that uses an earlier version of the operating system, see the upgrade instructions that came with this utility.

IMPORTANT Make sure you’ve filled in your name using the Setup application on your Newton PDA. The computer uses this name when it creates a backup file. See your Newton PDA handbook to learn how to enter your name. Also, it’s a good idea to name the storage cards you use with your Newton PDA.

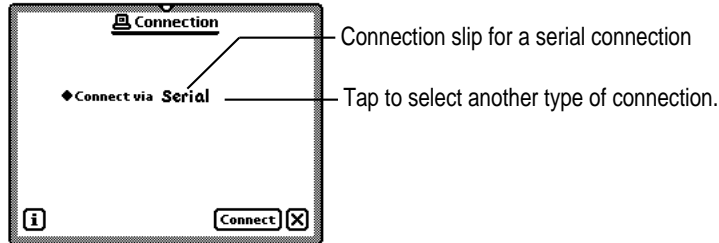
Selecting the type of connection on your Newton PDA

1 On your Newton screen, tap Extras .

2 In the Extras Drawer, tap Connection .

You may have to show all icons to see the Connection icon.

A slip appears. This slip shows the type of connection currently set for your Newton PDA.



3 If the type of connection that appears in the slip is not serial, tap “Connect via” to change the connection.

A list of connections appears.

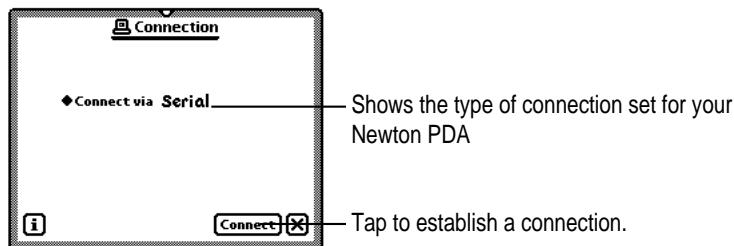
4 Choose Serial.

The type of connection you select is saved and remains set until you change it.

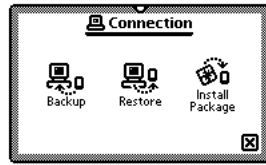
Establishing a connection

After you select the type of connection, you need to establish a connection between you Newton PDA and your computer.

■ Tap Connect.



After a few moments, the connection is established. The Newton Backup Utility buttons appear on your Newton screen.



As with the Newton Backup Utility buttons on your computer, you can use these buttons to back up and restore files, or install packages. See Chapter 4 for more information.

Creating your first backup

After you establish a connection, you can make a backup of information and packages on your Newton PDA and store it on your computer.

- 1 On your computer, click the Backup button in the Newton Backup Utility window.



Note: If your Newton PDA uses an earlier version of the Newton operating system, a backup is created automatically as soon as you establish a connection from your Newton PDA. You don't need to click Backup.

Because this is your first backup, the Newton Backup Utility creates a full backup of all your Newton information and packages. If you have a storage card inserted in your Newton PDA, information on the storage card is also backed up.

Note: If this is not your first backup, a window appears with a list of information to back up. For more information, see Chapter 2.



During the backup, a status window appears to show what information is being backed up.



After a few minutes, the window disappears and the backup is complete.

2 Check to see the Backups directory on your computer.

When you back up your Newton PDA, a directory named Backups is created which contains the backup files. By default, this directory is located in the NBU directory.

For more information about backup files and directories, see Chapter 2.

Quitting the utility

To end a connection and quit the Newton Backup Utility:

- **Choose Exit from the File menu.**

The connection is ended and the Newton Backup Utility window disappears.

Note: You can also end a connection from your Newton PDA by tapping the close box (marked by X) next to the Newton Backup Utility buttons.

2

Backing Up and Restoring Information



The previous chapter described how to use the Newton Backup utility to create your first backup. This chapter describes how to do additional backups and how to restore information you've backed up.

IMPORTANT The instructions in this chapter apply to Newton PDAs that use the Newton 2.0 Operating System. If you're upgrading your Newton PDA to Newton 2.0, make sure you read the instructions that came with your upgrade kit before you use the Newton Backup Utility.

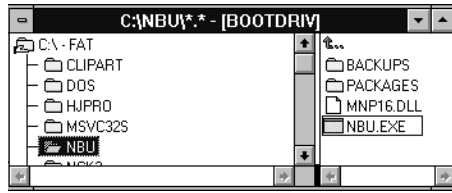
About backup files

It's important to back up your Newton information. Backup files provide a safe way to store information in case it ever gets lost or deleted by mistake.

With the Newton Backup Utility you can back up all information on your Newton PDA or just selected information.

The first time you create a backup, the Newton Backup Utility backs up all information on your Newton PDA (including any storage cards you've inserted) and stores the information in a directory named Backups.

Inside the Backups directory is a file with the same name as the name you gave your Newton PDA. This file contains the latest backup information. If you haven't entered a name for your Newton PDA, the file is called Newton.NBK.

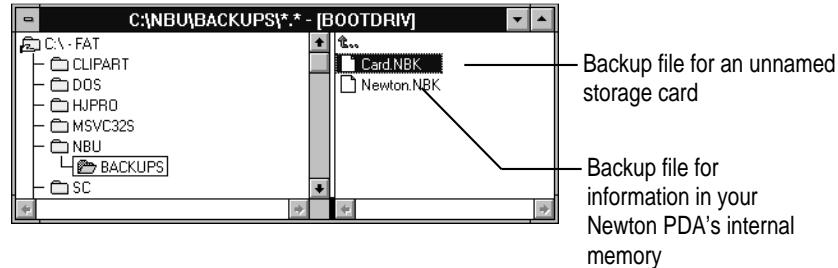


NBU directory in the File Manager

By default, the Backups directory is located in NBU directory in the File Manager. You can change the location of this directory. See “Changing the Location of the Backups directory” later in this chapter.

Backing up cards

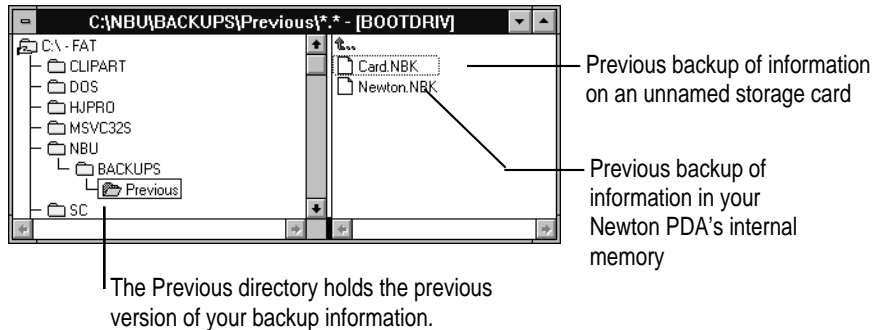
When you back up a storage card, a separate backup file is created with the name of the card. If you haven’t entered a name for your card, the file is called Card. If you back up more than one unnamed card, the backup files are named Card, Card 2, Card 3 and so on.



Previous backups

Every time you back up, the Newton Backup Utility makes a copy of the previous backup file and stores it in a directory called Previous. This directory is located in your Backups directory.

For example, if your Newton PDA is named Newton, the Newton Backup Utility creates a file named Newton.NBK the first time you back up. The next time you back up, the Newton Backup Utility copies the original Newton.NBK file and places it in a Previous directory.



The Newton Backup Utility maintains a current and previous backup file for all information in your Newton PDA's internal memory and a current and previous backup file for each storage card you back up.

Creating backup files

You can back up all information and packages on your Newton PDA or you just back up selected information and packages. The following section describes how to back up all information. To back up selected information and packages, see “Backing Up Selected Information and Packages” later in this chapter.

Backing up all information and packages

Before you begin, make sure your Newton PDA is connected to your computer. For instructions, see Chapter 1.

To back up all information on your Newton PDA:

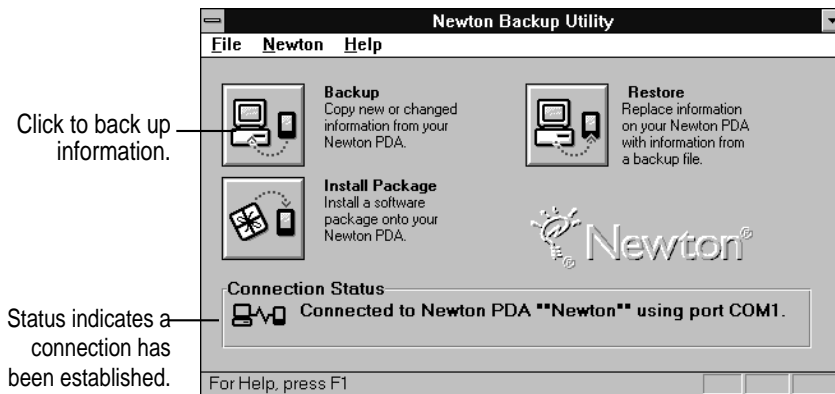
- 1 On your computer, open the Newton Backup Utility.

To open the utility, double-click the Newton Backup Utility icon.

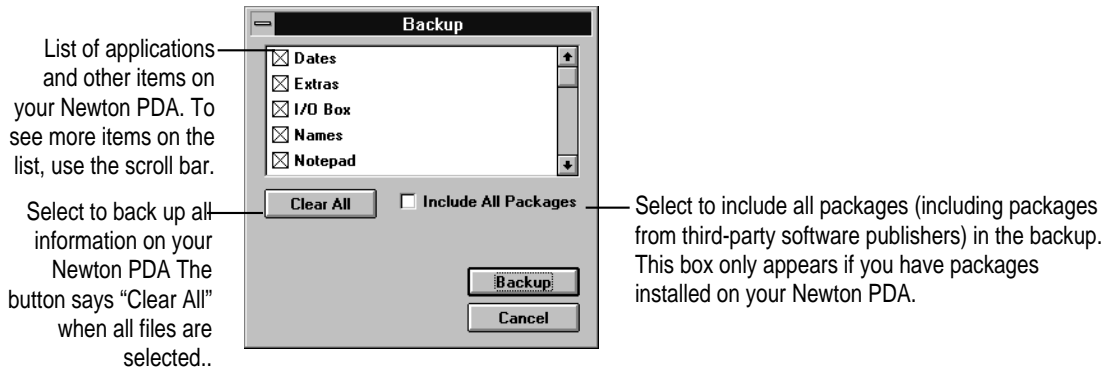
- 2 Establish a connection from your Newton PDA.

See Chapter 1 for instructions.

- 3 On your computer, click the Backup button.



A window appears with a list of items to back up. To select an item, click the box next to it until you see an X.



Note: When you back up your Newton PDA for the first time (no backup file exists), this window doesn't appear. Instead, a full back up of the Newton PDA begins as soon as you click Backup.

4 If necessary, click Select All.

Select All selects all information. If a Clear All button appears instead of Select All, all information is already selected.

5 If available, make sure Include All Packages is selected.

6 Click Backup.

A status window appears indicating a backup is in progress. Messages in the window show what information is being backed up.



After a few minutes, the window disappears and the backup is complete.

Backing up selected information and packages

In general, it's a good idea to back up all information on your Newton PDA. However, if you've only added information to one or two applications, you can specify which applications and application information should be backed up. For example, you can just back up information in your Newton Datebook.

Selective backup is faster than backing up all information and packages. When you selectively back up information, the new information is added to your most recent backup file.

WARNING If you selectively back up, be careful when you restore information. You may remove information that has not been backed up. Apple recommends you restore information only from a full backup. See “Restoring Information and Packages” later in this chapter.

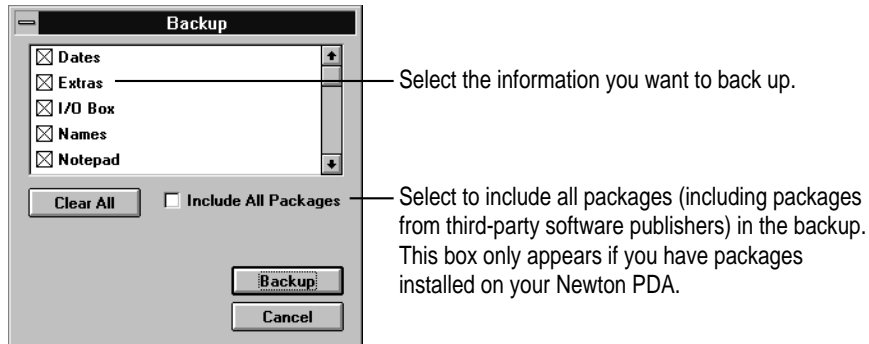
To back up selected information on your Newton PDA:

- 1 **Open the Newton Backup Utility and establish a connection.**

See Chapter 1 for instructions.

- 2 **On your computer, click the Backup button.**

A window appears with a list of information to back up.



3 Select the information to back up.

To select an item to back up, click the box next to it until you see an X. Only items marked with an X will be backed up.

4 Click Backup.

A status window appears indicating a backup is in progress. Messages in the window show what information is being backed up.



After a few minutes, the window disappears and the information you selected is added to the latest backup file.

Backing up a storage card

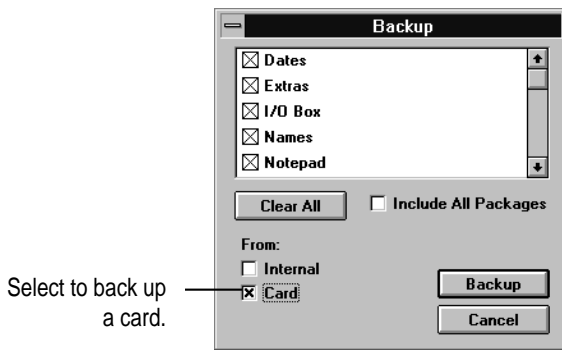
You can use the Newton Backup Utility to back up the contents of a storage card.

1 Insert the storage card.

2 Open the Newton Backup Utility and establish a connection.

3 Click Backup.

The Backup window appears. The bottom of the window includes a list of cards currently inserted in your Newton PDA. To select an item to back up, click the box next to it until you see an X.



Note: When you back up a card for the first time (no backup file exists for the card), this window doesn't appear. Instead, a full back up of the card and the Newton PDA begins as soon as you click Backup.

- 4** Make sure the card you want to back up is selected.
- 5** Click Backup.

After a few minutes, the card is backed up and a backup file with the name of the card appears in your Backups directory.

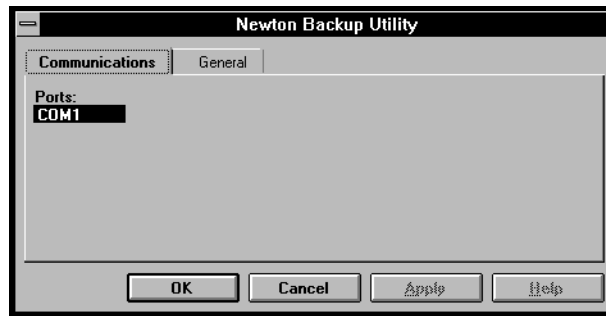
Changing the location of the Backups directory

By default, the Backups directory is automatically stored in the Newton Backup Utility directory on your computer.

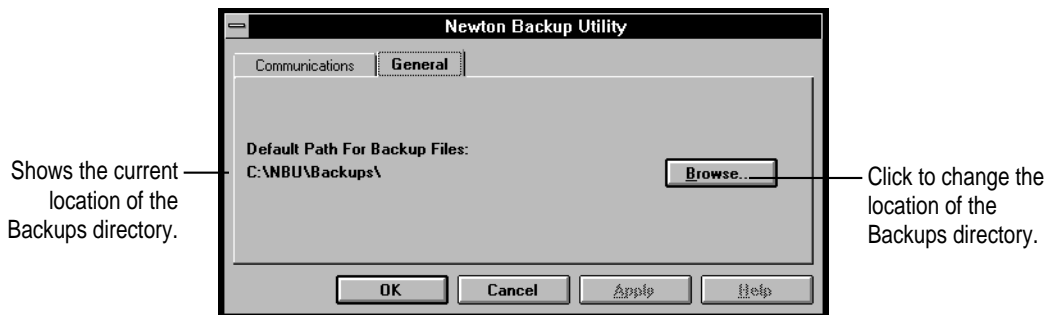
To change the location of the Backups directory:

- 1 **Open the Newton Backup Utility.**
- 2 **Choose Settings from the Newton menu.**

A window appears.



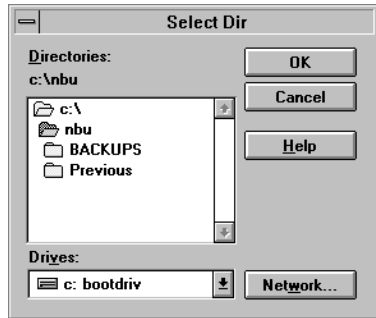
- 3 **Click the General tab.**



This window now shows the directory path set for backing up your Newton PDA information.

- 4 To change the directory, click **Browse**.

A window appears.



- 5 Select a new location for your Backups directory.
- 6 Click **OK**.
- 7 Establish a connection from your Newton PDA.
- 8 Click the **Backup** button and back up all information and packages on your Newton PDA.

For more information, see “Backing Up All Information and Packages” earlier in this chapter.

Note: To avoid confusion with previous backups, you may want to remove older backup files you’ve created in other locations.

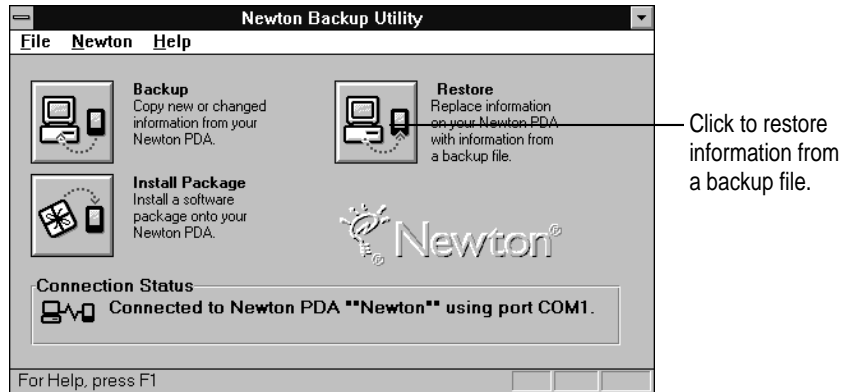
Restoring information and packages

If something goes wrong and you lose information on your Newton PDA, you can restore information from the latest backup file on your computer. You can restore all information in a backup file or select which information you want to restore.

WARNING Restoring replaces information on your Newton PDA with information from a backup file on your computer. Make sure you select the correct information to restore.

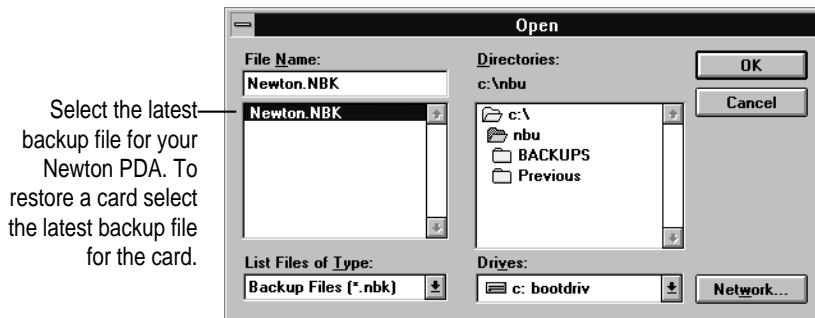
Before you begin, make sure your Newton PDA is connected to your computer. For instructions, see Chapter 1.

- 1 Open the Newton Backup Utility and establish a connection.
- 2 Click the Restore button.



- 3 In the window that appears, choose the file that contains the information you want to restore.

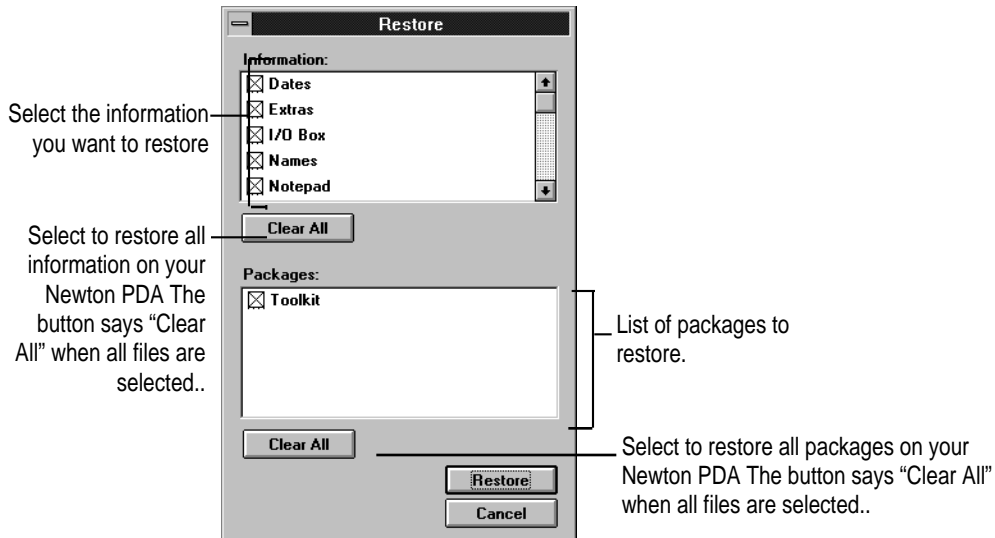
You can also restore the information from storage cards you've backed up.



WARNING If you selectively backup, be careful when you restore information. You may remove information that has not been backed up. Apple recommends you restore information only from a full backup.

- 4 Click OK.

You see a list of information and packages that can be restored. You can choose items to restore or restore all the items. To select an item, click the box next to it until you see an X.



5 Select the items you want to restore.

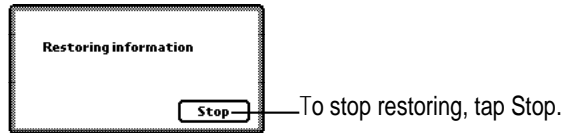
6 Click Restore.

A status window on your computer keeps you informed of the progress.

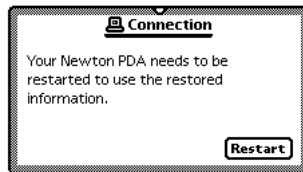


When you restore all your information or a selection of it, the Newton Backup Utility will replace the files on your Newton PDA with the files that you backed up. Files that were not backed up will be left as is.

To stop restoring, hold down the ⌘ and period keys on your computer or tap the Stop button on your Newton PDA.



When the restoration is complete, a message appears on your Newton screen asking you to restart.



7 Tap Restart.

After a few minutes, your Newton PDA restarts.

Note: If you have a personal identification number (PIN) assigned to your Newton PDA, the number is not restored. You'll need to re-assign a PIN number. For more information on assigning a PIN number, see the handbook that came with your Newton PDA.

Tips on managing backups

The following tips can help you back up and restore files on your Newton PDA.

- If you're using more than one computer, you can set up a central location for backup files. That way, you'll always know where the latest backup files are located. See “Changing the Location of the Backups Folder” earlier in this chapter.
- You can copy backup files and rename them to prevent them from being replaced by another backup. This is useful for managing or storing different sets of information.

3

Installing Packages



This chapter describes how to use the Newton Backup Utility to install packages. You can install packages on your Newton PDA or on a storage card.

Installing a package on your Newton PDA

A package is a special file that adds features to your Newton PDA. Examples of packages include applications, electronic books, and system updates.

Before you begin, make sure your Newton PDA is connected to your computer. For instructions, see Chapter 1.

IMPORTANT The package you install is added to the information already on your Newton PDA. Nothing is erased.

- 1 Insert the floppy disk containing the package into your computer.**

If the package is already on your computer's hard disk, skip this step.

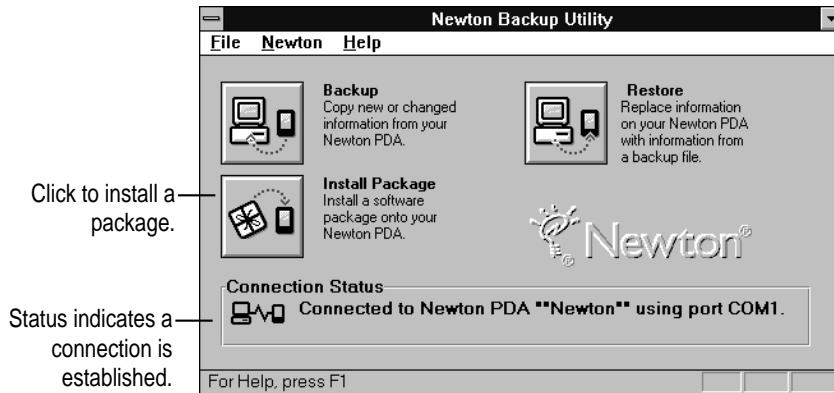
- 2 On your computer, double-click the Newton Backup Utility icon.**

The Newton Backup Utility window appears on your computer.

- 3 On your Newton PDA, establish a connection.**

See Chapter 1 for instructions.

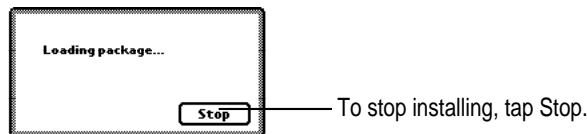
4 Click the Install Package button.



5 In the window that appears, select the package you want to install and click OK.



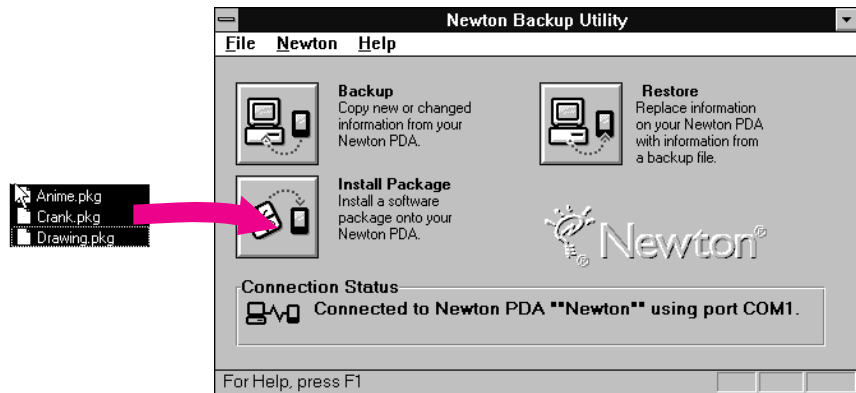
The package is installed on your Newton PDA. A status window on your computer keeps you informed of the progress. To stop installing, hold down the ⌘ and period keys on your computer or tap the Stop button on your Newton PDA.



Installing packages by dragging

You can also install one or more packages by dragging package icons to the Install Package button in the Newton Backup Utility window.

- 1 Open the Newton Backup utility and establish a connection.
- 2 Locate a package icon on your floppy disk or your computer's hard disk.
- 3 Select one or more package icons and hold down the mouse button.
- 4 Drag the icons to the Install Package button in the Newton Backup Utility window.



Installing a package onto a storage card

You can install packages on a storage card rather than in your Newton PDA's internal memory.

- 1 Insert the card in your Newton PDA.
- 2 In the slip that appears, select "Save new info and packages on this card."
- 3 Follow the steps described in the previous section, "Installing a Package On Your Newton PDA."

With "Save new info and packages on this card" turned on, the Newton Backup Utility automatically installs packages on the storage card.

4

Using the Utility From Your Newton PDA

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This chapter describes how to use the Newton Backup Utility from your Newton PDA instead of from your computer.

Using the utility

Before you begin, make sure your Newton PDA is connected to your computer. For instructions, see Chapter 1.

To use the Newton Backup Utility from your Newton PDA.

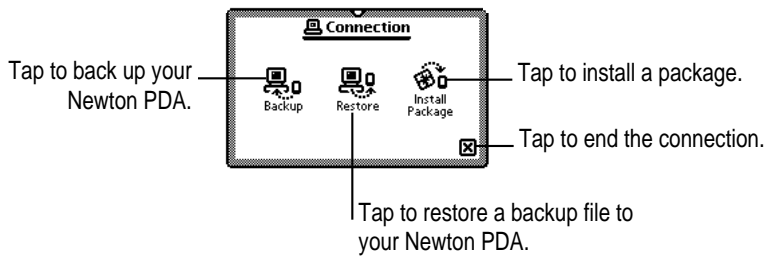
- 1 On your computer, double-click the Newton Backup Utility icon in the File Manager.**

The Newton Backup Utility window opens on your computer.

- 2 On your Newton PDA, establish a connection to your computer.**

See Chapter 1 for instructions.

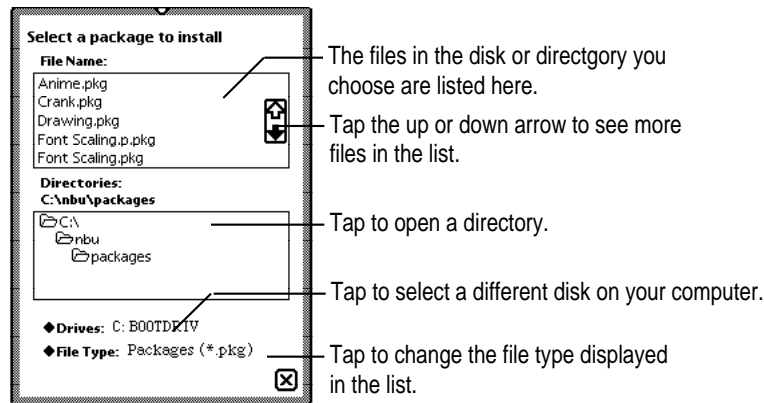
The Newton Backup Utility buttons appear on your Newton screen. You can use these buttons to back up and restore files, or install packages.



Backing up, restoring, and installing packages works the same on your Newton PDA as on your computer. See Chapter 2 for more information on backing up and restoring files. See Chapter 3 for more information on installing packages.

Finding files on your computer

When you restore files or install packages, a slip appears with a list of files on your computer. You locate files from your Newton PDA just as you would from your computer.

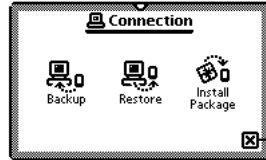


Changing connection preferences



To change connection preferences on your Newton PDA:

- 1 If necessary, tap **X** to close the Newton Backup Utility slip and end the connection.

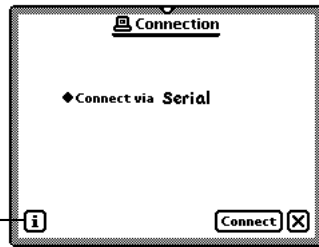
You cannot change connection preferences while a connection is established between your Newton PDA and your computer.



Tap to close the slip and end the connection.

- 2 On your Newton screen, tap Extras .
- 3 In the Extras Drawer, tap Connection .

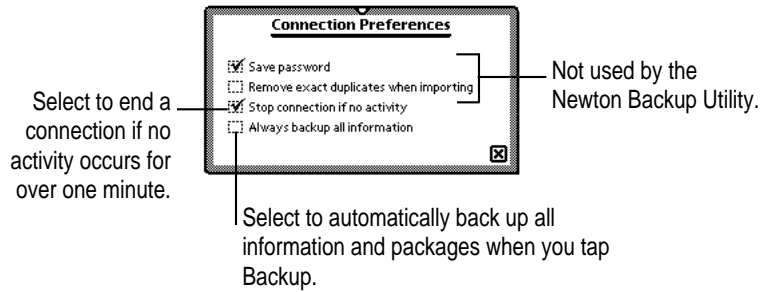
A slip appears.



Tap to change connection preferences.

4 Tap the information button and choose Prefs from the list of choices.

A slip appears with a list of connection preferences.



Some of these preferences are used by the Newton Backup Utility and some preferences are used by other connection applications.

5 Select the desired connection preferences.

6 Tap ☒ to close the slip.

Your connection preferences are saved.

5

Troubleshooting



This chapter describes some common problems you may encounter when using the Newton Backup Utility. For problems related to your Newton PDA, see the handbook that came with your Newton PDA.

Common problems with the Newton Backup Utility

An error message appears when I try to install the Newton Backup Utility.

- Make sure your computer meets the installation requirements. See “Installation Requirements” in Chapter 1.

An error message appears when I try to startup the Newton Backup Utility.

- Make sure you have turned on your computer’s Virtual memory. See “Turning on Virtual Memory” in Chapter 1.

I can’t establish a connection from my Newton PDA.

- Check your connection cables to make sure they’re connected properly. See “Connecting a Newton PDA to Your Computer” in Chapter 1.
- Make sure you’ve selected the correct type of connection on your computer. See “Preparing Your Computer” in Chapter 1.
- Make sure you’ve selected the correct type of connection on your Newton PDA. See “Preparing Your Newton PDA” in Chapter 1.

I can't choose menu commands or click buttons in the Newton Backup Utility window.

- Most menu commands and buttons are dimmed in the Newton Backup Utility until you establish a connection from your Newton PDA. See “Establishing a Connection” in Chapter 1.

A backup file was created even though I didn't click Backup.

- When you connect a Newton PDA that uses an earlier version of the Newton operating system, your Newton PDA is backed up automatically. You don't need to click Backup.

I can't create a backup file.

- Make sure your Newton PDA is connected to your computer. See “Connecting a Newton PDA to Your Computer” in Chapter 1.
- Make sure you've selected the correct type of connection on your computer. See “Preparing Your Computer” in Chapter 1.
- Make sure you've selected the correct type of connection on your Newton PDA. See “Preparing Your Newton PDA” in Chapter 1.
- Make sure you establish a connection from your Newton PDA. See “Establishing a Connection” in Chapter 1.

I can't locate backup files in the Newton Backup Utility folder.

- You may have changed the location of backup files to another folder. See “Changing the Location of the Backups Folder” in Chapter 2.

I can't restore backup files created with the Newton Connection 2.0 or 1.0 Kit.

- The Newton Backup Utility does not read files created with Newton Connection 2.0 or 1.0.

I can't restore because most recent backup file is damaged or lost.

- Use a previous backup from the Previous Backups folder.

I can't install a package.

- You may not have enough free storage space on your storage card or Newton PDA. Try deleting packages you don't need or no longer use.
- Contact the software publisher to make sure the package is compatible with the Newton 2.0 Operating System.



Appendix A Newton Backup Utility Files

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This appendix lists the files installed with the Newton Backup Utility software. If you should have problems working with the Newton Backup Utility, you can reinstall all the files to make sure they have not been removed accidentally.

NBU sub directory (All platforms):

- nbu.exe
- mnp16.dll
- manual.pdf
- manual.wri

Windows\system sub directory (under Windows 3.1) and in \system32" sub-directory (Other platforms)

- ctl3d32.dll

Windows\system\win32s sub-directory (Under Windows 3.1):

- ctype.nls
- l_intl.nls
- locale.nls
- p_037.nls
- p_10000.nls
- p_10001.nls

- p_10006.nls
- p_10007.nls
- p_10029.nls
- p_10079.nls
- p_10081.nls
- p_1026.nls
- p_1250.nls
- p_1251.nls
- p_1252.nls
- p_1253.nls
- p_1254.nls
- p_437.nls
- p_500.nls
- p_737.nls
- p_850.nls
- p_852.nls
- p_855.nls
- p_857.nls
- p_860.nls
- p_861.nls
- p_863.nls
- p_865.nls
- p_866.nls
- p_869.nls
- p_875.nls
- p_932.nls
- p_936.nls
- p_949.nls
- p_950.nls

- sortkey.nls
- sorttbls.nls
- unicode.nls
- comdlg32.dll
- crt.dll
- lz32.dll
- netapi32.dll
- ntmsg.dll
- olecli32.dll
- olesvr32.dll
- sck16thk.dll
- shell32.dll
- version.dll
- w32s.386
- w32scomb.dll
- w32skrn1.dll
- win32s.exe
- winmm.dll
- winspool.drv
- wsock32.dll

Windows\system\ sub directory (Under Windows 3.1):

- w32sys.dll
- winmm16.dll
- win32s16.dll
- olecli.dll